Activity 5 Documentation

Setting up the server

```
PS C:\Users\Krizzy\Documents\3rdYear2ndSem\CoE197\Week 10\ME8_Containerization_and_Docker\3-building_images> docker run --rm -d --name apache -p 80:80 httpd:2.4
Unable to find image 'httpd:2.4' locally
2.4: Pulling from library/httpd
609692152171a: Pull complete
728444e0cc7b: Pull complete
3678b2d55ccd: Pull complete
3678b2d55ccd: Pull complete
90197597a982: Pull complete
90197597a983: Pull complete
90197597a983: Pull complete
90197597a983: Pull complete
5019655:e4c2b93c0476246866cce6d507d94def02ef4dc285278d0d926e09827f4857db
Status: Downloaded newer image for httpd:2.4
40242b5fa62678ec6d239a4ff3fa7f1a73f77d129bbc85d5e6c8f23c054a2bcc
```

```
PS C:\Users\Krizzy\Documents\3rdYear2ndSem\CoE197\Week 10\ME8_Containerization_and_Docker\3-building_images> <mark>curl</mark> localhost
StatusCode
                      : 200
StatusDescription : OK
                      : <html><body><h1>It works!</h1></body></html>
                      : HTTP/1.1 200 OK
Accept-Ranges: bytes
RawContent
                         Content-Length: 45
                         Content-Lengtn: 45
Content-Type: text/html
Date: Tue, 18 May 2021 09:35:19 GMT
ETag: "2d-432a5e4a73a80"
Last-Modified: Mon, 11 Jun 2007 18:53:14 GMT
                         Server:..
                         \{\} {[Accept-Ranges, bytes], [Content-Length, 45], [Content-Type, text/html], [Date, Tue, 18 May 2021 09:35:19 GMT]...}
orms
Headers
Images
[nputFields
Links
ParsedHtml
                      : System.__ComObject
: 45
RawContentLength
```

Replace index.html with new content using 'docker cp':

```
PS C:\Users\Krizzy\Documents\3rdYear2ndSem\CoE197\Week 10\ME8_Containerization_and_Docker\5-volumes> docker cp index.html apache:/usr/local/apache2/htdocs/PS C:\Users\Krizzy\Documents\3rdYear2ndSem\CoE197\Week 10\ME8_Containerization_and_Docker\5-volumes> curl localhost

StatusCode : 200
StatusDescription : 0K
Content : \html>\chody><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html>\tml\setminus\body><\html\setminus\body><\html>\tml\setminus\body><\html\setminus\body><\html\setminus\body><\html\setminus\body><\html\setminus\body><\html\setminus\body><\html\setminus\body><\html\setminus\body><\html\setminus\body><\html\setminus\body><\html\setminus\body><\html\setminus\body><\html\setminus\body><\html\setminus\body><\html\setmin
```

A possible data problem

Changes we made previously are not retained after stopping the container

```
PS C:\Users\Krizzy\Documents\3rdYear2ndSem\CoE197\Week 10\ME8_Containerization_and_Docker\5-volumes> docker stop apache
apache
PS C:\Users\Krizzy\Documents\3rdYear2ndSem\CoE197\Week 10\ME8_Containerization_and_Docker\5-volumes> docker run --rm -d --name apache -p 80:80 httpd:2.4
6d489a7ad9a91563c6a28dbbb2255a21f9c65859c6d8536b3b8b03bdc7b18586
PS C:\Users\Krizzy\Documents\3rdYear2ndSem\CoE197\Week 10\ME8_Containerization_and_Docker\5-volumes> docker run --rm -d --name apache -p 80:80 httpd:2.4
6d489a7ad9a91563c6a28dbbb2255a21f9c65859c6d8536b3b8b03bdc7b18586
PS C:\Users\Krizzy\Documents\3rdYear2ndSem\CoE197\Week 10\ME8_Containerization_and_Docker\5-volumes> docker run --rm -d --name apache -p 80:80 httpd:2.4
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PS C:\Users\Krizzy\Documents\3rdYear2ndSem\CoE197\Week 10\ME8_Containerization_and_Docker\5-volumes> docker run --rm -d --name apache -p 80:80 httpd:2.4
6d489a7ad9a91563c6a28dbbb2255a21f9c65859c6d8536b3b8b03bdc7b18586
PS C:\Users\Krizzy\Documents\3rdYear2ndSem\CoE197\Week 10\ME8_Containerization_and_Docker\5-volumes> docker run --rm -d --name apache -p 80:80 httpd:2.4
6d489a7ad9a91563c6a28dbbb255a21f9c65859c6d8536b3b8b03bdc7b18586
PS C:\Users\Krizzy\Documents\3rdYear2ndSem\CoE197\Week 10\ME8_Containerization_and_Docker\5-volumes> docker\1 localhost

FAUSCHOLD --rm --rm -d --name apache -p 80:80 httpd:2.4

Extra Lines - 200

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```

Managing volumes

```
PS C:\Users\Krizzy\Documents\3rdYear2ndSem\CoE197\Week 10\ME8_Containerization_and_Docker\5-volumes> docker volume 1s

DRIVER VOLUME NAME

PS C:\Users\Krizzy\Documents\3rdYear2ndSem\CoE197\Week 10\ME8_Containerization_and_Docker\5-volumes> docker volume create myvolume
myvolume

PS C:\Users\Krizzy\Documents\3rdYear2ndSem\CoE197\Week 10\ME8_Containerization_and_Docker\5-volumes> docker volume 1s

DRIVER VOLUME NAME

local myvolume

PS C:\Users\Krizzy\Documents\3rdYear2ndSem\CoE197\Week 10\ME8_Containerization_and_Docker\5-volumes> docker volume rm myvolume

myvolume

PS C:\Users\Krizzy\Documents\3rdYear2ndSem\CoE197\Week 10\ME8_Containerization_and_Docker\5-volumes> docker volume 1s

DRIVER VOLUME NAME

PS C:\Users\Krizzy\Documents\3rdYear2ndSem\CoE197\Week 10\ME8_Containerization_and_Docker\5-volumes> docker volume 1s

DRIVER VOLUME NAME

PS C:\Users\Krizzy\Documents\3rdYear2ndSem\CoE197\Week 10\ME8_Containerization_and_Docker\5-volumes>
```

Mounting volumes on containers

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```
PS C:\Users\Krizzy\Documents\3rdYear2ndSem\CoE197\Week 10\ME8_Containerization_and_Docker\5-volumes> <mark>docker</mark> stop apache
apache
PS C:\Users\Krizzy\Documents\3rdYear2ndSem\CoE197\Week 10\ME8_Containerization_and_Docker\5-volumes> <mark>docker</mark> volume rm httpd_htdocs
httpd_htdocs
```

Mounting host directories on containers